

Bachelor of Computer Applications (BCA)
Choice Based Credit System (CBCS)

- **Objectives of the course:**

- 1) Developing computer professional versatile in use of computers mostly in business world.
- 2) The emphasis is to have generality of developing professionals as programmer, system analysts, database administrators, documentation officer etc.
 - a) To understand the fundamental concepts of Computers, Business environment and IT Applications in Business
 - b) To analyze technical data to reach actionable conclusions, including technological solutions to the business.
 - c) To learn technologies & IT languages, so the business problems could be addressed.
 - d) To develop competent technical writing skills so as to enable the graduate to communicate business ideas to senior management and general public.
 - e) To identify and sharpen their IT/ programming skills.

- **Duration:**

- i) The course shall be a full time course.
- ii) The duration of course shall be three years.
- iii) The course shall be run on self-supporting basis.

- **Number of Students:**

A batch shall consist of not more than 60 students.

- **Eligibility:**

- i) A Candidate shall have passed XII std. Examination of the Maharashtra Board of Higher Secondary Education or its equivalent or any Diploma of not less than two years.
- ii) A candidate has to appear for a common entrance test to be conducted by respective college for getting admission to this course.

Scope and Career Prospects of BCA:

Career after Completing BCA

What You Learn:

In BCA, you will learn about some interesting subjects like Mathematics, Computer Programming, Computer Networking, Database Management Systems and, Software Engineering, Web Development, Software testing etc.

Jobs for BCA Graduates

- BCA graduates have good scope in jobs as a Web Developer, Web Designer, Network Administrator, System Manager, Computer Programmer, Software Developer, Software Tester, Quality Analyst, Information System Manager etc. depending on the skills you acquire during your BCA.
- Various companies, organizations, and MNCs offer the above-mentioned jobs to BCA candidates. Some of the top MNCs that hire BCA graduates are Wipro, Infosys, HCL Technologies, TCS, Capgemini, Tech Mahindra, etc.

Higher Education after BCA

- Pursuing Master of Computer Application (MCA) after BCA adds to your computer and programming skills.
- Other courses which a BCA Degree holder can think about doing are:
 - Masters Degree in Information Management
 - Information Security Management
 - Masters in Computer Management (MCM)
 - Post Graduate Program in Corporate Studies
- The short-term courses which can be studied by BCA graduates are net, Java, MySQL, SAP, Oracle, VB and web development. These courses are perfect for someone who is willing to study and work at the same time.

B.C.A. Syllabus : Choice Based Credit System (CBCS)

BCA I

Semester I	Semester II
Fundamentals of Computer	Advanced Programming in C
Basics of 'C' Programming	Web Technology
Financial Accounting with Tally	Software Engineering
Communication Skills	Digital Electronics
Discrete Mathematics	Computer Oriented Statistics
Lab 1	Lab 2

BCA II

Semester III	Semester IV
Data structures using 'C'	Software Testing
Networking & Data communication	Python
DBMS with Oracle	Operating System
OOP with C++	Advanced Web technology
Operations Research	E- Governance
Lab 3	Lab 4

BCA III

Semester V	Semester VI
Core Java	Advanced Java
Visual Programming	Dot Net Technology
Linux and Shell Programming	Recent Trends in IT
Computer Graphics	Cryptography and Network Security
Data Warehouse and Data Mining	System Programming
Theory of Computation	Major Project
Mini Project	Lab 6
Lab 5	